BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 1950000.00

Name of Work: Detailed Estimate for the work of Improvements to roads and drains at KHB Colony and Nehru nagara in ward No- 01 of yelahanka Sub division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3, No. 138/ Item No. 19.1/ PWD SR 2014-15	cum							
	desilting of Existing drain Prakash theater road		1	220.00	0.45	0.20	19.80		
	Dhanashekar house road		2	30.00	0.40	0.35	8.40		
	near udaya sagara		1	165.00	0.40	0.30	19.80		
							48.00	75.60	3629.00
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	75.60							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2014-15)	cum							
	Basic Rate for loading and unloading	63.00	Vide Item No. 1				48.00	79.10	3797.00
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2 X 4	10.24							
		73.24							
	Area Weightage @ 8%	5.86							
	Total	79.10							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No.25 item No 5.27 SR 2014-15	sqm							
	Prakash theater road	1x2	2	220.00	0.20		88.00		
	Dhanashekar house road	2x2	4	30.00	0.20		24.00		
	near udaya sagara	1x2	2	165.00	0.20		66.00		
							178.00	993.60	176861.00
	Basic Rate	920.00							
	Area Weightage @ 8%	73.60							
	Total	993.60							
4	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs. with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc,** including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15	Cum							
	coping Prakash theater road	1x2	2	220.00	0.20	0.10	8.80		
	Dhanashekar house road	2x2	4	30.00	0.20	0.10	2.40		
	near udaya sagara	1x2	1	165.00	0.20	0.10	3.30		
							14.50	6065.28	87947.00
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	6065.28							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 15.3.4 Providing 15m thick cement plaster in single coat with cement mortar 1:3,to brick masonry including rounding off corners wherever reuired smooth rendering, Providing and removing scaffolding, including cost of materials, labour, Curing complete as per specifications Page No. 109 Item No 15.12 SR 2014-15	sqm							
	Prakash theater road	1x4	4	220.00	0.20		176.00		
	Dhanashekar house road	2x4	8	30.00	0.20		48.00		
	near udaya sagara	1x4	4	165.00	0.20		132.00		
							356.00	199.80	71129.00
	Basic Rate	185.00							
	Area Weightage @ 8%	14.80							
	Total	199.80							
6	RCC Precast covering slab for drain (10cm thick)	sqm							
	Prakash theater road		1	220.00	0.60		132.00		
	Dhanashekar house road		2	30.00	0.60		36.00		
	near udaya sagara		1	165.00	0.60		99.00		
							267.00	1498.00	399966.00
	Rate Approved by BBMP	1498.00							
1	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications MORTH chapter 5. No 157 item No 21.2 SR 2014-15	sqm							
	KHB colony cross road		4	30.00	4.50		540.00		
	main road		1	250.00	4.50		1125.00		
	prakash theater road		1	250.00	5.50		1375.00		
							3040.00	3.02	9193.00
	Basic Rate	2.80							
	Area Weightage @ 8%	0.22							
	Total	3.02							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
2	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406, No. 154, item No 20.18 SR 2014-15	cum							
	KHB colony cross road profile correction		4	30.00	0.50	0.10	6.00		
	main road		1	250.00	0.60	0.10	15.00		
	prakash theater road		1	250.00	1.00	0.15	37.50		
							58.50	**1438.56**	**84156.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							
	Total	**1438.56**							
3	KSRRB M500-6: providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, No. 157 item No 21.6 SR 2014-15	sqm							
			4	30.00	0.50		60.00		
			1	250.00	0.60		150.00		
			1	250.00	1.00		250.00		
							460.00	**35.21**	**16196.00**
	Basic Rate	32.60							
	Area Weightage @ 8%	2.61							
	Total	**35.21**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
4	KSRRB 500-11: Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 / 75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack cost with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications, MORTH chapter 5, using 40/60 TPH capacity HMP with Mechanical Paver Gr -I (80 mm to 100mm) with 3.1% VG-30 Bitumen No. 158/ Item No. 21.11.5/ PWD SR 2014-15	cum							
	for camber correction only 50% of Wet mix qty						29.25		
							29.25	**6624.72**	**193773.00**
	Basic Rate	6134.00							
	Area Weightage @ 8%	490.72							
	Total	**6624.72**							
5	KSRRB 500-7: providing and applying tack coatusing 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding clearing of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications, MORTH chapter 5, No. 157/ Item No 21.7/ SR 2014-15	sqm							
	KHB colony cross road		4	30.00	4.50		540.00		
	main road		1	250.00	4.50		1125.00		
			1	250.00	5.50		1375.00		
	Basic Rate	17.35					**3040.00**	**18.74**	**56964.00**
	Area Weightage @ 8%	1.39							
	Total	**18.74**							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	KSRRB M500-18: providing and laying Semidence bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desire compaction as per MORTH specification clause No. 508 using 40-60 TPH capacity HMP with mechanical paver grading II (25-30mm) with 5% CRMB -55 grade, No. 160/ Item No. 21.21.6 SR 2014-15	cum							
	KHB colony cross road		4	30.00	4.50	0.025	13.50		
	main road		1	250.00	4.50	0.025	28.13		
			1	250.00	5.50	0.025	34.38		
	Basic Rate	10066.00					76.00	10871.28	826217.00
	Area Weightage @ 8%	805.28							
	Total	10871.28							
7	1% of Quality control charges								19500.00
8	Miscellaneous charges								672.00
								Total	1950000.00
	(Rupees Ninteen lakhs Fifty thousand Only)								

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CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Sanction for Rs. 19.50 lakh
Nineteen Lakh & Fifty Thousand only
is accorded under head P. 1771 2014-15
Registered as CE No. CE/YNK/32/27-10-14 Subject to conditions contained in enclosed memo No. EE/YNK/287 Dt. 27.10.14

AE/JE TA CE(YNK)

TECHNICALLY SANCTIONED FOR Rs. 19.50 lakh
Rupees Nineteen Lakh & Fifty Thousand
Under P. 1771 2014-15
Registered as CE ( ) No. 9 9
Subject to conditions contained in enclosed memo EE ( ) No /9/
Dt. Estimate A/ Sanctioned
EE/YNK/27/14-15 No.
Dated 28-10-14 Rs. 19.50 lakh

Executive Engineer

Improvements to roads and drains at KHB Colony and Nehrunagar in Ward No-01 of Yelahanka Sub Division.

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Asst. Executive Engineer